

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E395746

Luminaire Tested: **H7-401**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395746
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-401
Description: HALO RECESSED INC - H7 HOUSING, OPEN TRIM
Light Source: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

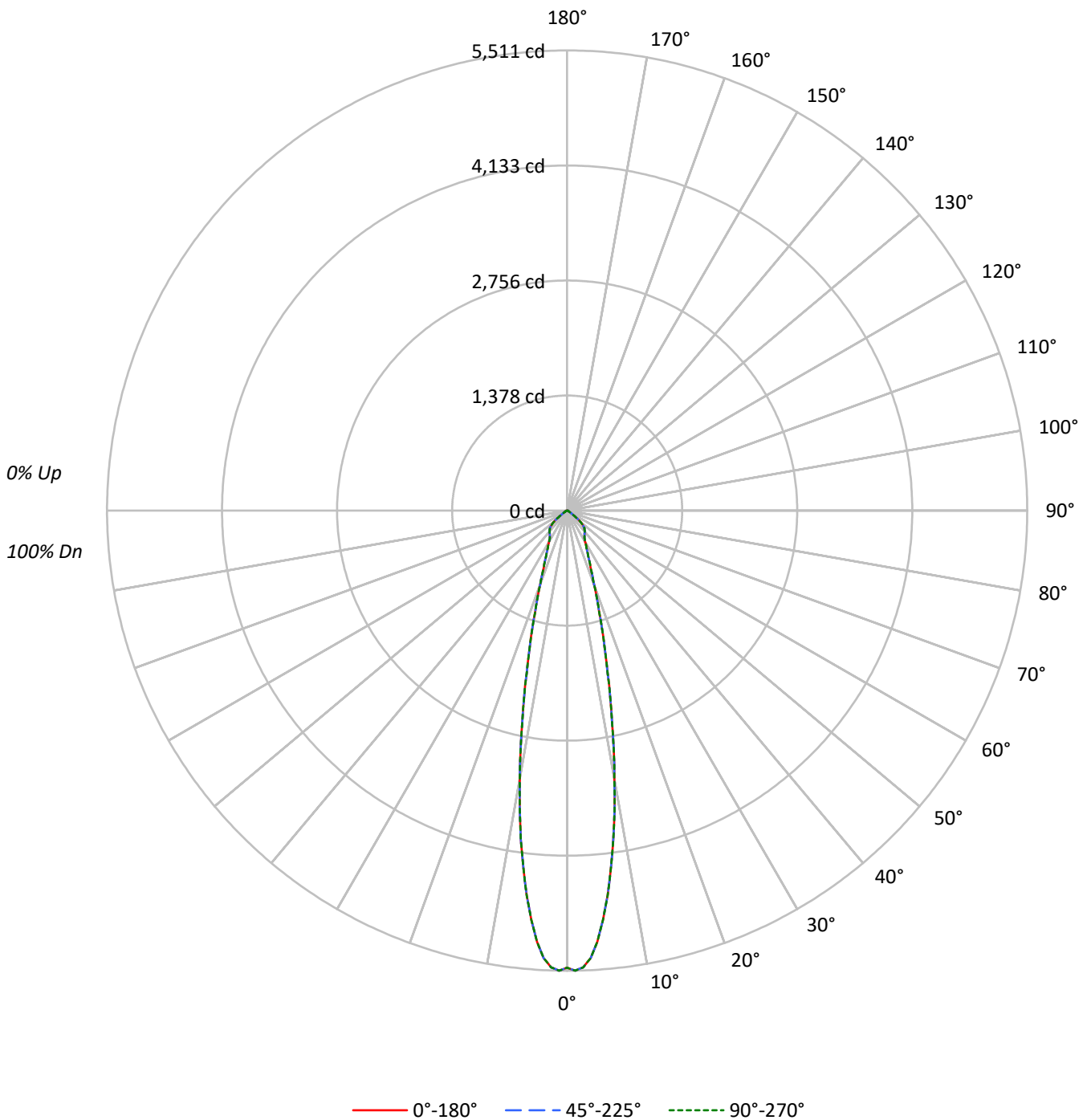
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1770.0 lumens
Efficiency: 93.2%
Efficacy: 11.8 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.41
Luminous Opening: (L: 0 ' x W: -0.43 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	111	111	111	111	108	108	108	108	104	104	104		99	99	99		95	95	95	93
1	106	103	100	98	103	101	99	97	97	95	94		94	92	91		90	89	88	87
2	100	96	92	89	98	94	91	88	91	88	86		88	86	84		86	84	82	81
3	95	89	85	81	93	88	84	80	86	82	79		83	80	78		81	79	77	75
4	91	84	79	75	89	83	78	74	81	77	73		79	75	73		77	74	72	70
5	86	79	73	70	85	78	73	69	76	72	69		75	71	68		73	70	67	66
6	83	75	69	65	81	74	69	65	72	68	65		71	67	64		70	66	64	62
7	79	71	65	62	78	70	65	61	69	64	61		68	64	61		67	63	60	59
8	76	67	62	58	75	67	62	58	66	61	58		65	61	58		64	60	57	56
9	73	64	59	56	72	64	59	55	63	58	55		62	58	55		61	58	55	54
10	70	61	56	53	69	61	56	53	60	56	53		60	56	53		59	55	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	414.7	23.4	21.8
10°-20°	500.8	28.3	26.4
20°-30°	283.4	16.0	14.9
30°-40°	229.4	13.0	12.1
40°-50°	214.4	12.1	11.3
50°-60°	81.3	4.6	4.3
60°-70°	21.8	1.2	1.1
70°-80°	14.0	0.8	0.7
80°-90°	10.1	0.6	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1198.9	67.7	63.1
0°-40°	1428.3	80.7	75.2
0°-60°	1724.1	97.4	90.7
0°-90°	1770.0	100.0	93.2
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1770.0	100.0	93.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5474	5474	5474	5474	5474	
5°	4919	4919	4919	4919	4919	415
15°	1766	1766	1766	1766	1766	501
25°	595	595	595	595	595	283
35°	362	362	362	362	362	229
45°	291	291	291	291	291	214
55°	67	67	67	67	67	81
65°	21	21	21	21	21	22
75°	13	13	13	13	13	14
85°	10	10	10	10	10	10
90°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5474	5474	5474	5474	5474	5474	5474	5474	5474
1°	5511	5511	5511	5511	5511	5511	5511	5511	5511
2°	5473	5473	5473	5473	5473	5473	5473	5473	5473
3°	5367	5367	5367	5367	5367	5367	5367	5367	5367
4°	5177	5177	5177	5177	5177	5177	5177	5177	5177
5°	4919	4919	4919	4919	4919	4919	4919	4919	4919
6°	4635	4635	4635	4635	4635	4635	4635	4635	4635
7°	4307	4307	4307	4307	4307	4307	4307	4307	4307
8°	3980	3980	3980	3980	3980	3980	3980	3980	3980
9°	3630	3630	3630	3630	3630	3630	3630	3630	3630
10°	3261	3261	3261	3261	3261	3261	3261	3261	3261
11°	2929	2929	2929	2929	2929	2929	2929	2929	2929
12°	2579	2579	2579	2579	2579	2579	2579	2579	2579
13°	2293	2293	2293	2293	2293	2293	2293	2293	2293
14°	2007	2007	2007	2007	2007	2007	2007	2007	2007
15°	1766	1766	1766	1766	1766	1766	1766	1766	1766
17.5°	1274	1274	1274	1274	1274	1274	1274	1274	1274
20°	938	938	938	938	938	938	938	938	938
22.5°	728	728	728	728	728	728	728	728	728
25°	595	595	595	595	595	595	595	595	595
27.5°	499	499	499	499	499	499	499	499	499
30°	431	431	431	431	431	431	431	431	431
32.5°	384	384	384	384	384	384	384	384	384
35°	362	362	362	362	362	362	362	362	362
37.5°	343	343	343	343	343	343	343	343	343
40°	327	327	327	327	327	327	327	327	327
45°	291	291	291	291	291	291	291	291	291
50°	204	204	204	204	204	204	204	204	204
55°	67	67	67	67	67	67	67	67	67
60°	30	30	30	30	30	30	30	30	30
65°	21	21	21	21	21	21	21	21	21
70°	16	16	16	16	16	16	16	16	16
75°	13	13	13	13	13	13	13	13	13
80°	11	11	11	11	11	11	11	11	11
85°	10	10	10	10	10	10	10	10	10
90°	6	6	6	6	6	6	6	6	6

(END OF REPORT)